FIG 2

feedback path — 2

Output

1

hearing device signal processing — 4

feedback compensator — 5

evaluation unit/ comparator — 11

system distance

3

wanted signal

Estimation Unit

Filter (for example, high-pass) — 6

Filter (for example, low-pass) — 7

feature extraction — 8

feature extraction — 9

model — 10

13

FIG 3

Output

1

feedback path

2

wanted signal

3

hearing device signal processing 1

41

hearing device signal processing 2

42

feedback compensator

5

Filter (for example, high-pass)

6

Filter (for example, low-pass)

7

feature extraction

8

feature extraction

9

model

10

evaluation unit/ comparator

11

system distance

13

Estimation Unit

FIG 4

Output

1

feedback path

2

wanted signal

3

hearing device signal processing

4

amplification/ compression control

12

Estimation Unit

Filter (for example, high-pass)

6

feature extraction

8

Filter (for example, low-pass)

7

feature extraction

9

13

model

10

evaluation unit/ comparator

11

system distance

FIG 5

Output

1

feedback path — 2

hearing device signal processing 1 — 41

hearing device signal processing 2 — 42

amplification/ compression control — 12

system distance

evaluation unit/ comparator — 11

feature extraction — 8

Filter (for example, high-pass) — 6

Filter (for example, low-pass) — 7

feature extraction — 9

model — 10

wanted signal

3

Estimation Unit — 13

FIG 6

Output

1

wanted signal

3

2 feedback path

4 hearing device signal processing

16 feedback/oscillation detector

15 notch filter

14 notch filter control

system distance

11 evaluation unit/ comparator

8 feature extraction

9 feature extraction

6 Filter (for example, high-pass)

7 Filter (for example, low-pass)

13

10 model

Estimation Unit